





## INSTALLATION AND OPERATION MANUAL



 **PIC**  **60P**  
POWER AMPLIFIER

# IMPORTANT SAFETY INFORMATION



1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This appliance shall not be exposed to dripping or splashing water and that no object filled with liquid such as vases shall be placed on the apparatus.
16. Plug this apparatus to the proper wall outlet and make the plug to be disconnected readily operable.
17. Mainsplug is used as disconnected device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
18. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
19. An appliance with a protective earth terminal should be connected to a mains outlet with a protective earth connection.
20. The apparatus should be disconnected from the mains completely before speaker wiring. The speaker output should be proper protected from direct contact and pay attention to speaker connections, terminals and speaker wiring during normal operation.

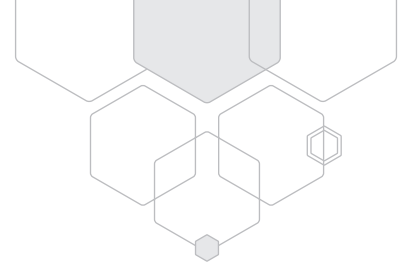


# PRÉCAUTIONS DURANT UTILISATION

1. LISEZ ces instructions.
2. Tenez ces instructions.
3. Notez tous les avertissements.
4. Suivez toutes les avertissements.
5. N'utilisez pas ce produit près de l'eau (la piscine, la plage, le lac, etc.).
6. Nettoyez seulement avec une étoffe sèche.
7. Ne bloquez aucuns trous de ventilation. Installez en accord avec les instructions du fabricant.
8. N'installez près aucunes sources de chaleur comme radiateurs, registres de chaleur, fours ou les autres équipements (y compris ampli cateurs) qui produisent la chaleur.
9. Ne défaites pas le but de sécurité de la fiche polarisée ou base-type. Une fiche polarisée a deux tranchants avec un plus large que l'autre. Une fiche de base type a deux a deux tranchants et une troisième pointe de base, le tranchant large ou la troisième pointe est fourni pour votre sécurité. Si la fiche donnée ne conforme pas votre prise de contact, consultez un électricien pour remplacement de la prise de contact obsolète.
10. Protégez le cordon de secteur contre être marchée dessus ou pincez en particulier aux fiches, aux douilles de convenance, et au point où ils sortent de l'appareil.
11. Seulement utilisez attachements/accessoires spécifiés par le fabricant.
12. Utilisez seulement avec un chariot, un stand, un trépied, un support ou une table indiquée par le fabricant, ou vendue avec l'appareil. Quand un chariot est utilisé, faites attention en déplaçant la combinaison d'appareil/chariot pour éviter de se déséquilibrer.
13. Arrachez la fiche du dispositif durant éclair et orage ou quand pas utilisé pour longues périodes de temps.
14. Référéz au personnel qualifié de service pour toutes réparations. La réparation est donnée quand le système a été endommagé à n'importe façon, par exemple un fil ou une fiche endommagé(e) de la source d'alimentation. Avoir été exposé à pluie ou humidité, n'opère pas normalement, ou avoir été tombé.
15. L'appareil ne doit pas être exposé aux écoulements ou aux éclaboussures et aucun objet ne contenant de liquide, tel qu'un vase, ne doit être placé sur l'objet.
16. Branchez l'appareil à une source appropriée et faire que la prise à débrancher soit facilement accessible.
17. La prise du secteur ne doit pas être obstruée ou doit être facilement accessible pendant son utilisation. Pour être complètement déconnecté de l'alimentation d'entrée, la prise doit être débranchée du secteur.
18. **AVERTISSEMENT:** Pour éviter le risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à l'humidité.
19. Un appareil avec la borne de terre de protection doit être connecté au secteur avec la connexion de terre de protection.
20. Assurez-vous que l'appareil est hors tension avant de connecter les hauts parleurs. Vérifiez que la sortie des enceintes soit protégées contre un contact physique. Respecter les polarités des terminaux ainsi que le câblage des enceintes pendant le fonctionnement afin d'assurer une utilisation sécurisée.



# INTRODUCTION & CONTENTS



## PICO60P

Congratulations on choosing Australian Monitor for your professional amplification requirements.

The Australian Monitor PICO60P is a half rack, 60W, constant voltage power amplifier specifically designed for small space applications such as cafes, restaurants, small retail and classrooms.

The PICO60P can be optionally paired with a VC-LIN for remote wall panel volume control.

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## WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THE PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

TO PREVENT ELECTRICAL SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT & FULLY INSERT.

## CAUTION

THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



### WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



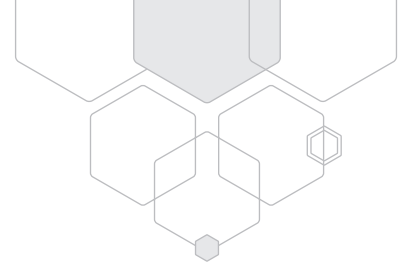
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance



For European Union countries: This symbol on the product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. Please contact your local authority for further details of your nearest designated collection point.

Rating plate and caution marking are marked on the back enclosure of the apparatus

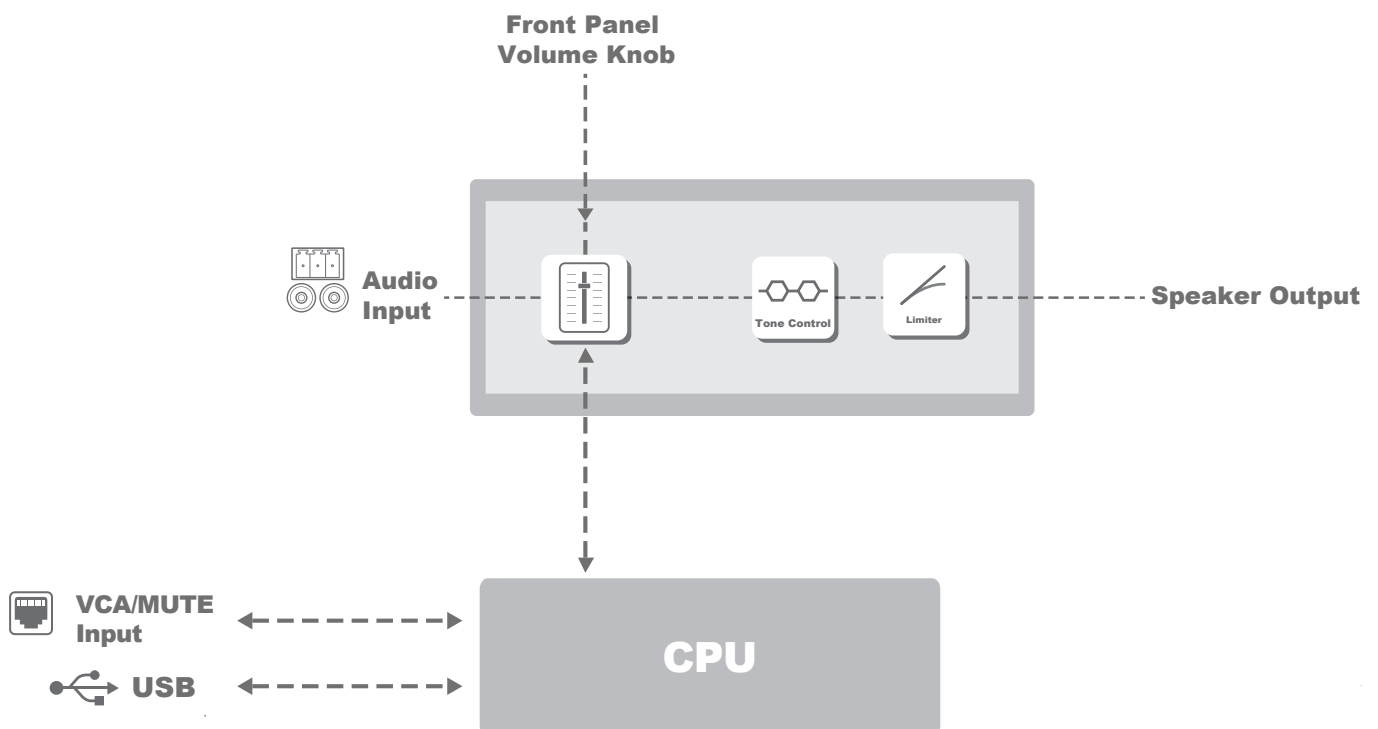
# FEATURES



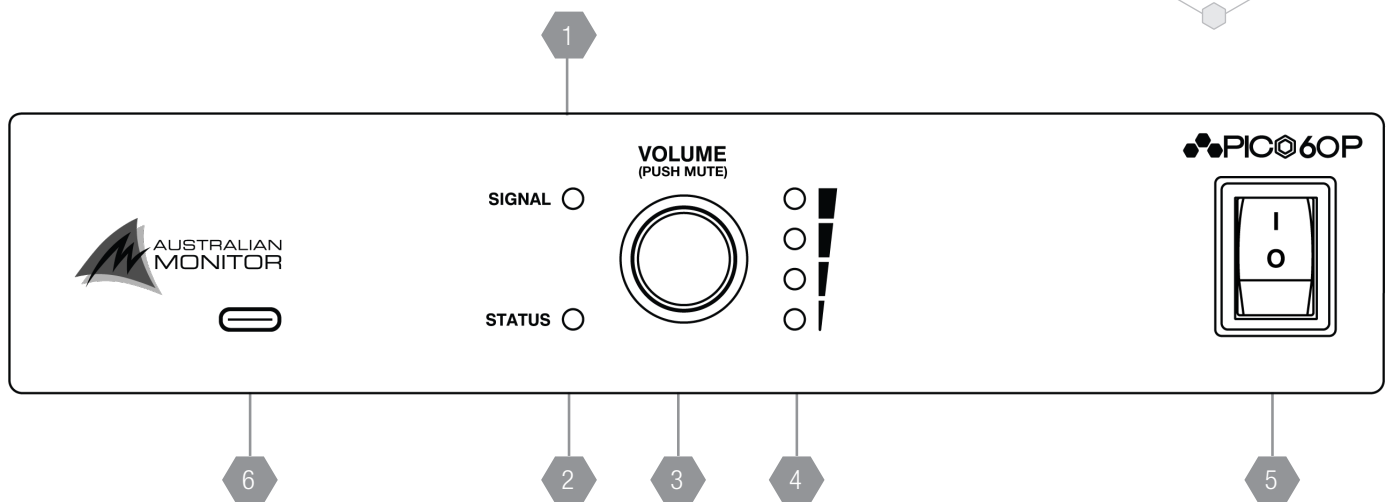
## FEATURES

- 60W Power Amplifier
- 100V and 4Ω outputs
- Balanced Euro Block & unbalanced RCA input
- Front panel volume control (defeatable via rear panel switch)
- Treble and Bass Control
- Internal audio limiter
- Optional VC-LIN wall panel volume control
- Mute contact closure
- Half rack form factor

## PICO60P BLOCK DIAGRAM



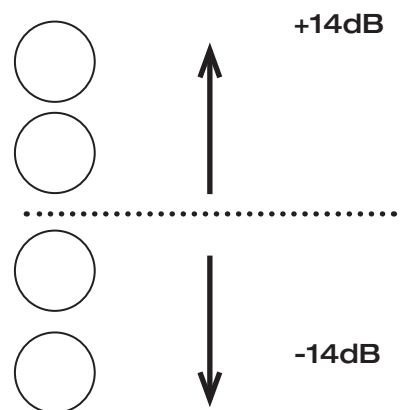
# FRONT PANEL



- 1 SIGNAL LED**  
 Lights green when a signal is present on the Input.  
 Lights red when clipping occurs due to an excessive input signal or overdriven output.  
 If clipping occurs reduce the input level or output volume.
- 2 STATUS LED**  
 This blue LED will illuminate indicating the unit is on and receiving mains power.  
 It will flash if an error occurs. See the ERROR CODES section for more details.
- 3 MASTER VOLUME**  
 Turn to adjust the Output Volume of the amplifier. Push to mute.  
 The volume level bottom level LED will blink every 500ms to indicate the mute state  
**Note: The front panel volume control can be disabled via the rear dip-switch**

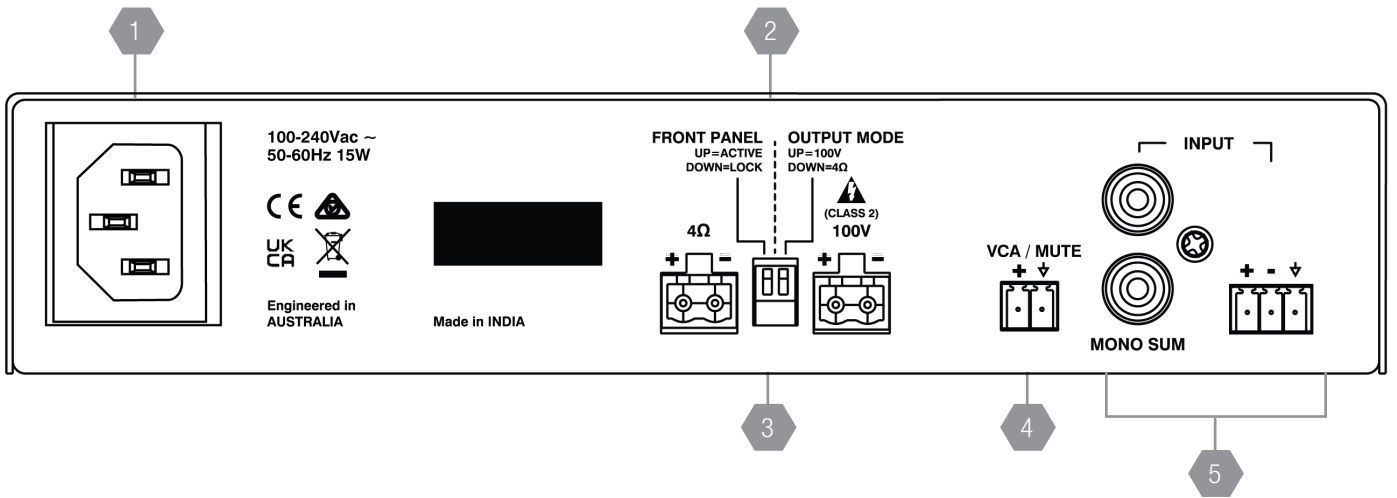
## BASS and TREBLE CONTROL

1. Hold down the Volume knob for 10 seconds to enter adjustment mode. The SIGNAL LED will start flashing every 500ms showing it is in BASS Mode.
2. Adjust the volume knob to right or left to increase or decrease the Bass respectively ( $\pm 14\text{dB}$ ). The level meter will show the current level as shown in the image
3. Press the Volume knob to move to TREBLE adjustment. The STATUS LED will start flashing every 500ms showing it is in TREBLE Mode.
4. Adjust the treble level as per point 2 above
5. Press the volume knob again to exit.  
**Note: It will automatically exit adjustment mode after 30 seconds**



- 4 VOLUME LEVEL**  
 Shows the Output level of the PICO60P
- 5 POWER SWITCH**  
 Press the switch up to power on and down to power off.
- 6 USB UTILITY PORT**  
 This USB-C port is used to update the device firmware.

# REAR PANEL



**1 MAINS INPUT CONNECTOR**  
 The PICO60P is fitted with a standard IEC 60320-C14 socket for mains connection.  
 Use the mains cable supplied to power up the unit.  
**⚠ NOTE: Your unit must always be earthed!**

**2 OUTPUT MODE and FRONT PANEL LOCK**  
**OUTPUT MODE** (right dip switch) – Allows selection of the speaker output. Up position activates the right 100 volt line speaker output. Down position activates the left 4 ohm speaker output.

**FRONT PANEL** (left dip switch) – Allows deactivation of the front panel volume control.  
 When the front volume control is locked the current level is remembered.  
 Up is active (enabled) and down is locked (disabled).  
**⚠ Note: If a wall panel is used the volume can still be modified from the wall panel.**

**3 4 OHM and 100 VOLT SPEAKER OUTPUT**  
 Euroblock speaker terminal outputs. See the installation section below for wiring instructions.

Minimum Impedance	100V Mode	167Ω
	4 Ohm Mode	4Ω

**⚠ NOTE: Only one output should be used at a time. Consult the Output Wiring section of this manual for full details.**

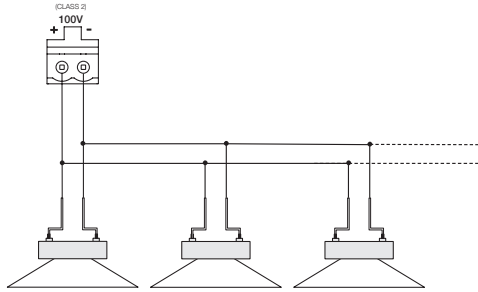
**4 VCA/MUTE**  
 Use a VC-LIN wall panel volume control to adjust the PICO60P output level.  
 Shorting the VCA pins together will mute the PICO60P.

**5 AUDIO INPUT**  
**Euroblock Balanced input** – This is a balanced line level input.  
**RCA input** – This is a mono summed, unbalanced line level input.  
**WARNING: Input signal ground should NOT be used as a safety ground (earth).**

# INSTALLATION

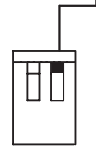
## 100 VOLT LINE OUTPUT

- Connect the speakers in parallel to right hand euro block connector.
- Ensure the OUTPUT MODE dip switch is in the UP position.



### OUTPUT MODE

UP = 100V  
DOWN = 4Ω



Caution: Minimum total impedance of all speakers should not be less than 167 ohm

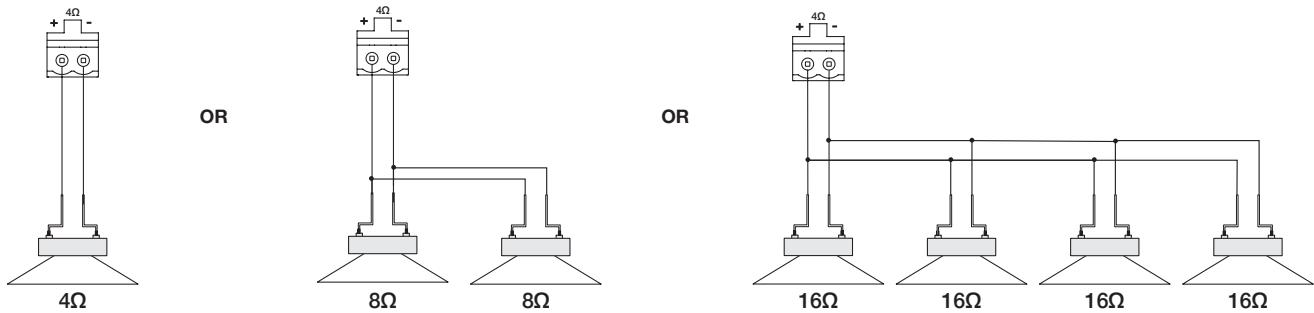
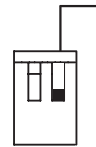
## 4Ω VOICE COIL

### LOW IMPEDANCE OUTPUT

- Connect the speakers to the left-hand euro block connector.
- Ensure the OUTPUT MODE dip switch is in the DOWN position.

### OUTPUT MODE

UP = 100V  
DOWN = 4Ω



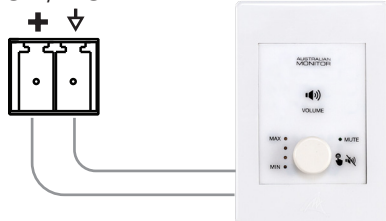
Caution: Minimum total impedance of all speakers should not be less than 4 ohm

## REMOTE VOLUME CONTROL ATTENUATION (VCA) / MUTE

Use a VC-LIN wall panel volume control to remotely adjust the volume of the PICO60P. The maximum cable length is 1000 meters using CAT5 or better cabling.

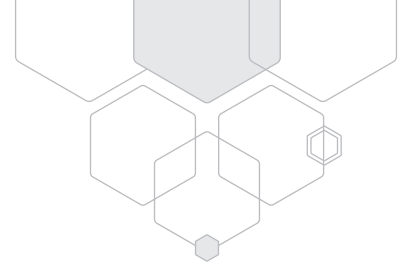
MUTE the system by shorting the two VCA pins together.

### VCA / MUTE



# MAINTENANCE

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## STATUS LED ERROR CODES

ERROR CODE	FLASH COUNT	RESOLUTION
Configuration failure	1	Recover system using PICO60P configuration software
Nor flash read/write failure	3	Recover system using PICO60P configuration software
File system failure	4	Recover system using PICO60P configuration software
Bootloader failure	6	None. Return to service agent
Amplifier failure	13	Remove the speaker load and power cycle the unit

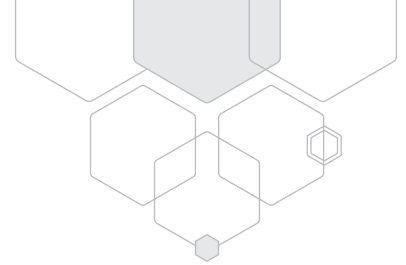
## MAINTENANCE

- Only competent or qualified persons should attempt any service or maintenance of your amplifier.
- No internal adjustments need to be made to the unit to maintain optimum performance.

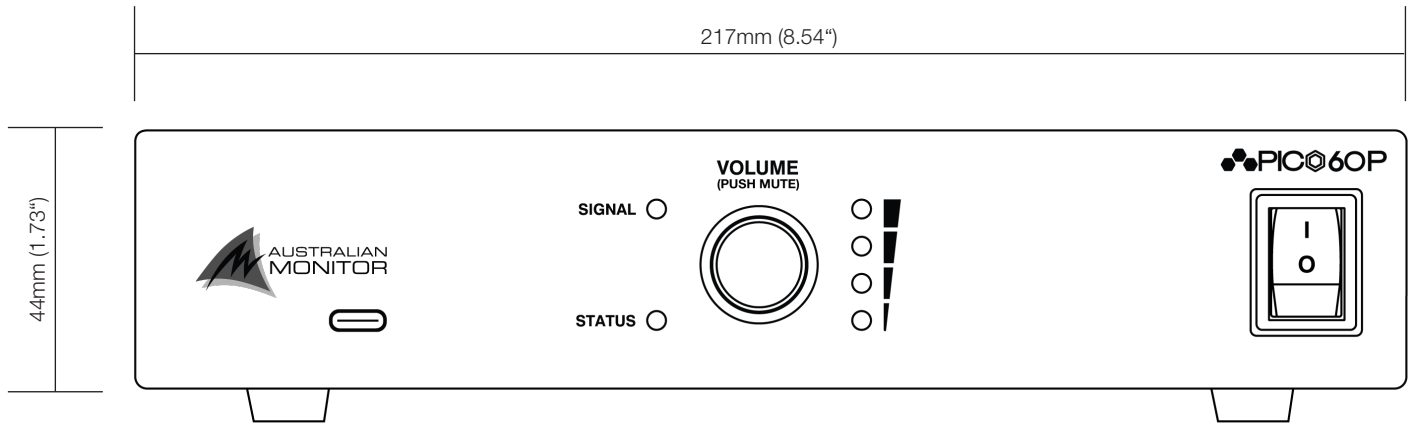
## FIRE REGULATION COMPLIANCE

This amplifier is not certified to fire regulations standards such as EN 54-16.

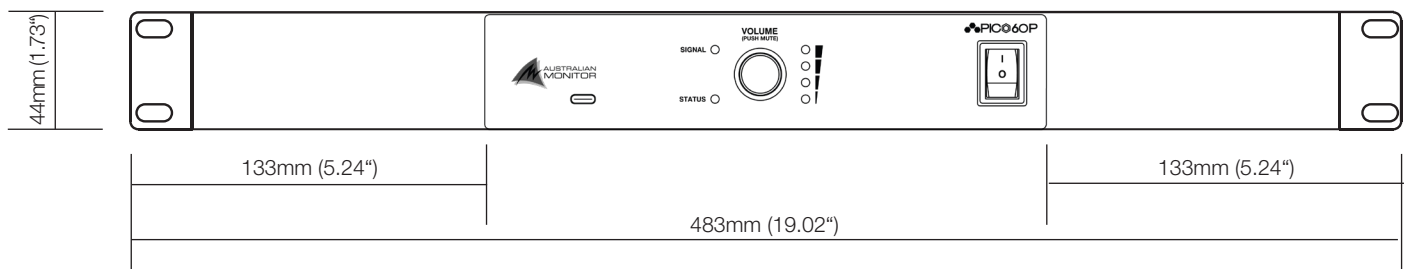
# DIMENSIONS



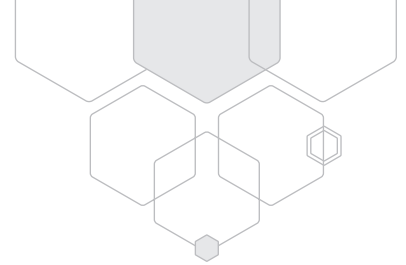
## FRONT:



## PICO-RMK 1RU RACK MOUNT KIT:

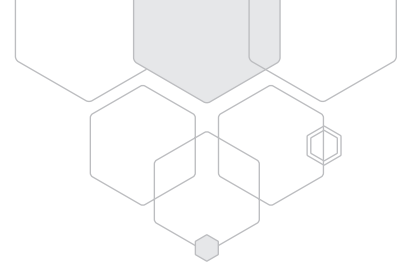


# SPECIFICATIONS



	PICO60P	CONDITIONS/COMMENTS
TOPOLOGY	Class-D	
CHANNELS	1	
POWER OUTPUT	60W	1kHz. 1%THD. -5W/+5W
MAXIMUM OUTPUT VOLTAGE	15.5Vrms	20Hz - 20kHz, 4Ω
SYSTEM GAIN	26.0dBV	Balanced input
FREQUENCY RESPONSE 4Ω 100V	20-20kHz 100Hz ~ 20kHz	±1.5dB.
SIGNAL TO NOISE RATIO	>90dBA	Max Output, 1kHz, 20kHz BW, A-Weighte
THD+N. 20Hz - 20kHz 4Ω. FREQ BAND 100V. FREQ BAND	< 0.1% < 0.05%	3dB below clipping, 20kHz BW, Unity Gain, A-Weighted
Intermodulation distortion - SMPTE. 4Ω 100V	< 0.03% < 0.03%	60Hz/7kHz, 4:1, 3dB below clipping
Intermodulation distortion - ITU-R (CCIF) 4Ω 100V	< 0.03% < 0.03%	19kHz/20kHz, 1:1, 3dB below clipping
<b>INPUT/OUTPUTS</b>		
Audio Input	1 x 3 way, 3.81 Euroblock Balanced Input 1 x Dual RCA Line Level Input (mono summed)	
VCA Input	2 way, 3.81mm Euroblock	
Speaker Output		
RCA Balanced Euroblock	200mVrms 1Vrms	
RCA Balanced Euroblock	2.6Vrms 13.5Vrms	
<b>MISCELLANEOUS</b>		
Input Impedance	>10kΩ	
Input CMRR	> 32dB	20Hz - 20kHz
Overload Protection	Temperature, Over/Under Voltage, Short-circuit	
<b>POWER REQUIREMENTS</b>		
AC Input	100- 240Vac, 50-60Hz	±10%
AC Input Connector	IEC 60320-C14	
AC Mains Fuse	T1AL 250V	
Maximum Inrush Current	30A	230VAC, 50Hz

# SPECIFICATIONS CONT.



	PICO60P	CONDITIONS/COMMENTS
<b>POWER CONSUMPTION</b>		
Idle	4W	24V 320mA. All Front panel LEDs on
1/8th Power	15W	230Vac, 50Hz, 100V Output, 1kHz, Sine
1/3 Power	32W	230Vac, 50Hz, 100V Output, 1kHz, Sine
Full Power	86W	230Vac, 50Hz, 100V Output, 1kHz, Sine
<b>EFFICIENCY</b>		
1/8th Power	50%	230Vac, 50Hz, 100V Output, 1kHz, Sine
1/3 Power	62%	230Vac, 50Hz, 100V Output, 1kHz, Sine
Full Power	70%	230Vac, 50Hz, 100V Output, 1kHz, Sine
<b>THERMAL DISSIPATION</b>		
Idle	14	Excludes Load Power (1W = 3.412BTU/Hr)
1/8th Power	51	Excludes Load Power (1W = 3.412BTU/Hr)
1/3 Power	109	Excludes Load Power (1W = 3.412BTU/Hr)
Full Power	293	Excludes Load Power (1W = 3.412BTU/Hr)
<b>WEIGHTS &amp; DIMENSIONS</b>		
Product Dimensions W x D x H )	217mm x 265mm x 44mm ( 8.54"W x 10.43"D x 1.73"H )	
Shipping Dimensions W x D x H	315mm x 365mm x 105mm ( 12.4"W x 14.4"D x 4.1"H )	
Net Weight	2.2 Kg ( 4.85 lbs )	Includes rack ears
Shipping Weight	3.1 Kg ( 6.8 lbs )	
Mounting	1 RU Half width	
Operating Temperature	0°C to 40°C (95% RH)	
Cooling system	Convection cooled	
Finish	Powder coated steel	
Colour	Black	
Accessories	2x1, 3.81mm Euroblock Connector Qty 1, 3x1, 3.81mm Euroblock Connector Qty 1, 2x1, 5mm Euroblock Connector Qty 2	
Approvals	CB, CE, IEC, RCM	